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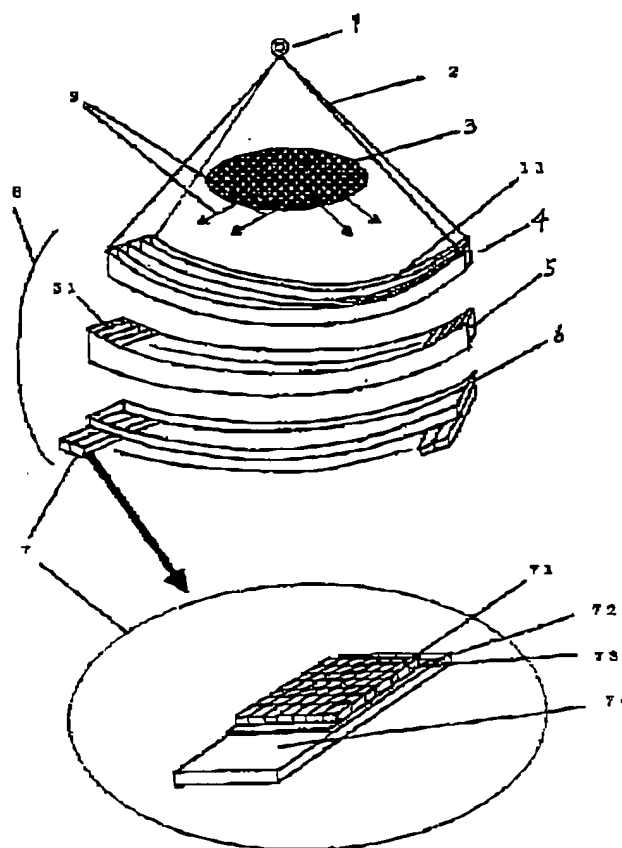
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TITLE : X-RAY DETECTOR AND X-RAY CT
 DEVICE USING THE SAME



ABSTRACT : PROBLEM TO BE SOLVED: To provide an X-ray detector and an X-ray CT device using it capable of minimizing the error of the position deviation between a slice thickness direction collimator plate end part and the slice thickness direction of an X-ray detection element block separation layer, improving X-ray utilization efficiency and homogenizing detection characteristics among respective X-ray detection elements.

SOLUTION: A collimator structure body composed of a channel direction collimator 4 and a slice thickness direction collimator 5 and plural X-ray detection element columns composed of a scintillator 71 for making X-rays transmitted through a testee body 3 be incident and emitting light and a photoelectric conversion element for generating output signals corresponding to an X-ray quantity detected by the scintillator are arrayed for plural columns respectively in a channel direction and the slice thickness direction on a circular arc centering an X-ray tube focus. In this case, the width of a separation band for separating the X-ray detection element columns of the slice thickness direction of this X-ray detector 8 is made smaller than the width of the collimator plate of the slice thickness direction collimator.

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